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Menon et al.(10) Pub. No.: **US 2001/0022784 A1**(43) Pub. Date: **Sep. 20, 2001**(54) **WIRELESS LOCAL LOOP SYSTEM
SUPPORTING VOICE/IP**

(57)

ABSTRACT(75) Inventors: **Narayan P. Menon**, Colorado Springs, CO (US); **Izzet M. Bilgic**, Colorado Springs, CO (US); **Steven D. Ledsham**, Colorado Springs, CO (US); **Ismail I. Sola**, Colorado Springs, CO (US)Correspondence Address:
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Iselin, NJ 08830 (US)(73) Assignee: **Opuswave Networks, Inc.**(21) Appl. No.: **09/742,810**(22) Filed: **Dec. 19, 2000****Related U.S. Application Data**

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236/243 A telecommunications network supporting wireless access to one or more public packet data networks, including, but not limited to, the Internet, and to one or more public switched circuit networks, for example, but not limited to, the Public Switched Telephone Network (PSTN). A voice access unit, for example, a telephone, may be connected to a Customer Premise Radio Unit (CPRU) via a wireline interface. The CPRU provides the voice access unit over-the-air, i.e., radio, access to one or more public switched circuit networks. A computing device, for example, a personal computer, may also, or in the alternative, be connected to a CPRU via a wireline interface. The CPRU provides the personal computer over-the-air access to one or more public packet data networks. A facsimile device may also, or in the alternative, be connected to a CPRU via a wireline interface. The CPRU provides the facsimile device over-the-air access to one or more public switched circuit networks.

The telecommunications network comprises a base station which provides wireless access for CPRUs to one or more public packet data networks and/or public switched circuit networks. The telecommunications network further comprises a Wireless Adjunct InterNet Platform (WARP), which supports functionality of known base stations. The telecommunications network also comprises one or more access routers, H.323 gateways, H.323 gatekeepers, Internet gateways and fax gateways for supporting subscriber access to public packet data networks and public switched circuit networks.

